AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) <u>A method Method</u> for estimation and control of [[the]] concentrations of pollutant gases at [[the]] <u>a</u> discharge of a gas turbine, <u>the method</u> comprising the following steps:
- [[•]]receipt of receiving a plurality of signals corresponding to data relating to [[the]] an operating state of the gas turbine, wherein the data includes a rotation speed of a shaft, a temperature of a discharge at the gas turbine, and a temperature of the environment;
 - [[●]]processing of this in a processor the data; and
- [[•]]evaluation of the evaluating emissions into the atmosphere from [[this]] the gas turbine on the basis of based on the [[said]] processed data-processed without using in-line analyzers.
- 2. (Currently Amended) <u>The method Method</u>-according to claim 1, additionally comprising:

the step of storage of storing the data processed in order to create a historic file of the emissions from the gas turbine.

3. (Currently Amended) The method Method according to claim 1, wherein

the said step of processing this data comprises:

the step of interfacing this data with refinement parameters using known parameters and constants of the gas turbine to evaluate the emissions.

- 4. (Currently Amended) <u>A system System for estimation and control of [[the]]</u> concentrations of pollutant gases at [[the]] <u>a</u> discharge of a gas turbine, characterised in that it the system comprising comprises:
- [[•]]an acquisition unit ((3) for the configured to receive data relating to [[the]]an operating state of the gas turbine, the [[said]] data being detected by a control panel [[(2)]] of the gas turbine, wherein the data includes a rotation speed of a shaft, a temperature of a discharge at the gas turbine, and a temperature of the environment; and
- [[•]]a local processing unit [[(4)]] which processes connected to the acquisition unit and configured to process the [[said]] data in association with the [[said]] acquisition unit and makes to make the data available for consultation at a remote location, in order to evaluate [[the]] emissions of [[by]] the [[said]] as turbine into the atmosphere without using in-line analyzers, on the basis of the said based on the processed data processed.
 - 5. (Currently Amended) <u>The system System</u> according to claim 4, wherein the [[said]] local processing unit comprises:
 - a data base for storage of the data-processed data.

- 6. (Currently Amended) <u>The system System according to claim 4, [[also]] further comprising:</u>
- a remote processing unit [[(5)]] which is connected to the [[said]] local processing unit by means of a telecommunications line.
- 7. (Currently Amended) <u>The system System according to claim 6</u>, wherein the said-telecommunications line is an Internet line.
- 8. (Currently Amended) <u>The system System according to claim 7</u>, wherein the <u>said-remote unit consults this is configured to access the data by means of via an Internet <u>based consultation programprogramme</u>.</u>
- 9. (Currently Amended) <u>The system System according to claim 4</u>, wherein the <u>said-local processing unit comprises:</u>
 - a calculator which carries out the processing of [[this]] the data.
- 10. (Currently Amended) <u>The system System-according to claim 9</u>, wherein the <u>said-calculator</u> carries out statistical calculation of the data stored in the historic data base for operation of the <u>gas_turbine</u>.
 - 11. (New) The method of claim 1, further comprising:

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determining emissions of oxygen, nitric oxides, and carbon monoxide of the gas turbine.

- 12. (New) The method of claim 1, wherein the data further includes a temperature at a discharge from a compressor of the gas turbine, a pressure of delivery to the compressor, a relative humidity of the environment, a molecular weight of a combustible gas, a compressibility of the combustible gas, a delivery mass of fuel, and a delivery of the combustion air.
- 13. (New) The system of claim 4, wherein the local processing unit is configured to determine emissions of oxygen, nitric oxides, and carbon monoxide of the gas turbine.
- 14. (New) The system of claim 4, wherein the data further includes a temperature at a discharge from a compressor of the gas turbine, a pressure of delivery to the compressor, a relative humidity of the environment, a molecular weight of a combustible gas, a compressibility of the combustible gas, a delivery mass of fuel, and a delivery of the combustion air.